

Panasonic

Automatic Telephone Answering System

KX-TM80-W

Model No. KX-TM80-B

Operating Instructions



KX-TM80-W

DIGITAL

PLEASE READ BEFORE USE AND SAVE.

Before Initial Use

Please read IMPORTANT SAFETY INSTRUCTIONS on pages 30–32 before use.

Read and understand all instructions.

Thank you for purchasing the Panasonic automatic telephone answering system with full-digital memory.

Attach your purchase receipt here.

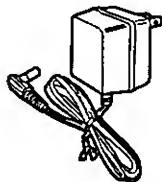
For your future reference

Serial No. _____ Date of purchase _____
(found on the bottom of the unit)

Name and address of dealer _____

Accessories

☐ AC Adaptor
(p. 6)



one

☐ Telephone Line Cord
(p. 6)



one

☐ 9V Size Battery
(p. 7)



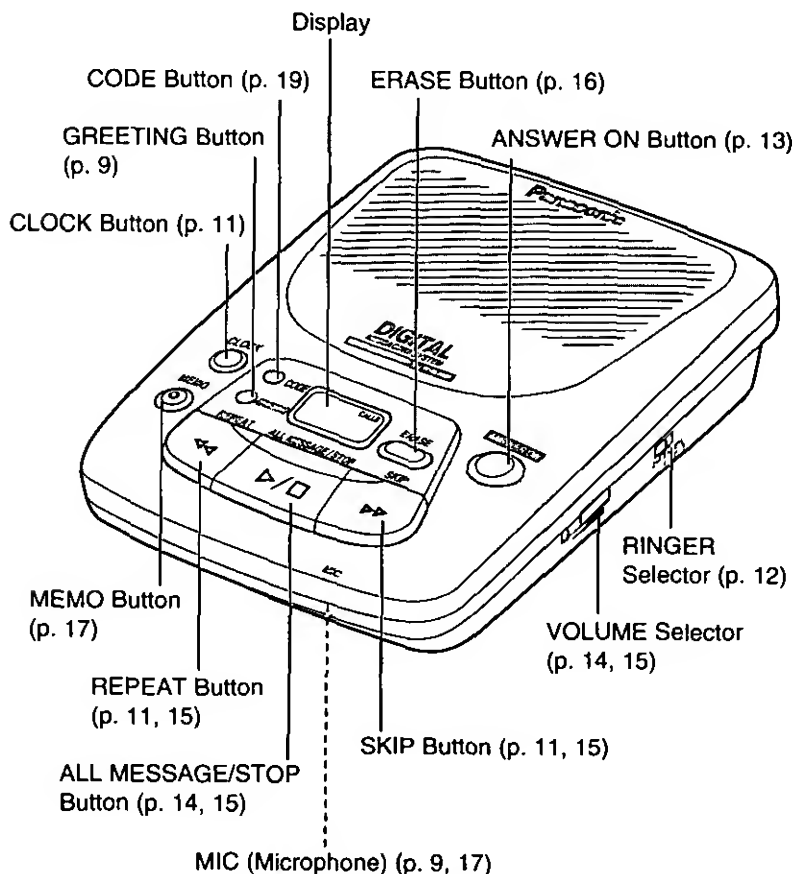
one

●To order accessories, call 1-800-332-5368.

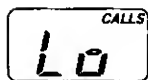
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Location of Controls



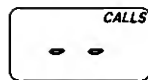
Display



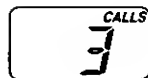
The battery is not installed or battery power is low. Install a new battery (p. 7, 25).



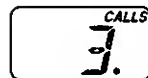
The answering function is turned on and no messages are recorded.



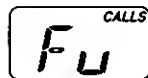
The answering function is turned off.



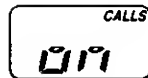
3 messages have been recorded.



3 messages **including new message(s)** have been recorded (p. 14).



Memory is full. Erase some or all messages (p. 16).



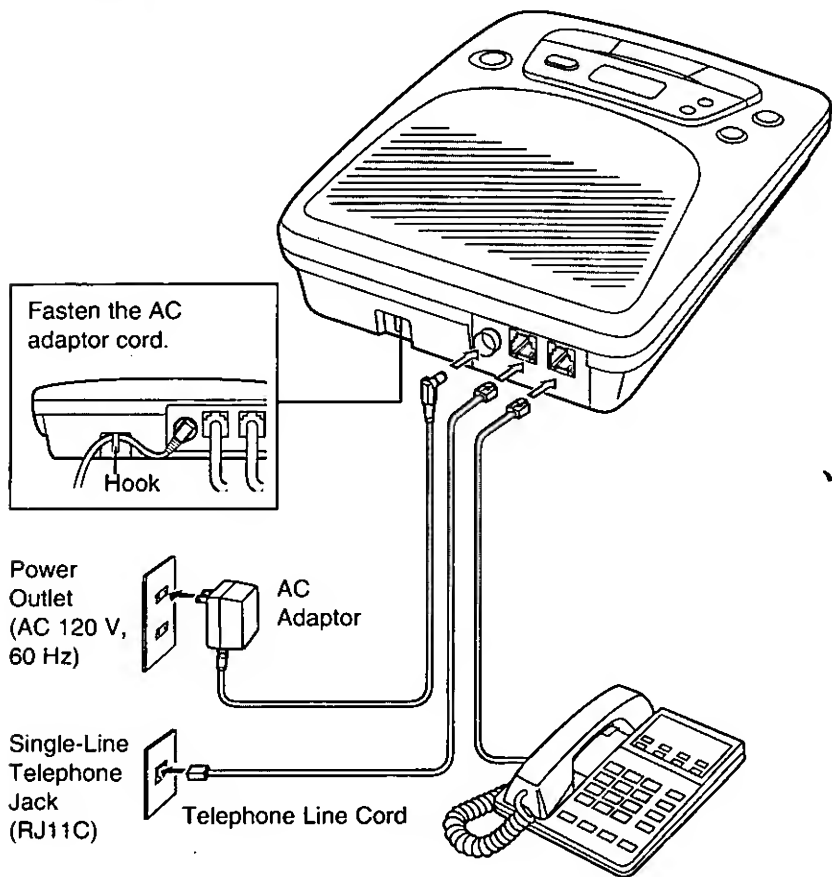
The unit is answering an outside call.



The unit is being operated from a remote phone.

Setting Up

Connection



- USE ONLY Panasonic AC ADAPTOR KX-A17.
- The AC adaptor must remain connected at all times. (It may feel warm during use. This is normal.)
- To prevent misoperation, do not connect a pulse telephone (20 pps) to the same line.

Battery Installation

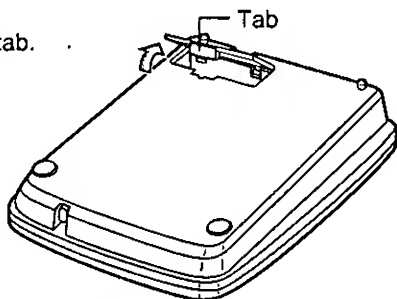
Install the included 9V size battery in the unit.

If the battery power is low or the battery is not installed, "Lo" flashes.

Replace with a new one. (If "Lo" flashes after installing a new battery, it will disappear after 10 seconds. Simply disconnect the AC adaptor cord and reinsert it again without removing the battery.)

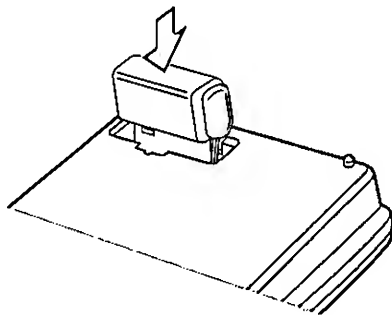
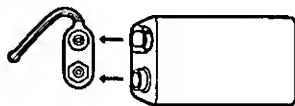
The new battery's retention time is approximately 1 day for recorded messages and the clock (p. 10) during a power failure.

- 1 Open the cover by pushing the tab.

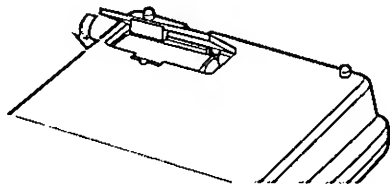


- 2 Install the battery in the battery compartment.

Snap on the terminals of the battery to the battery clip.



- 3 Close the cover.



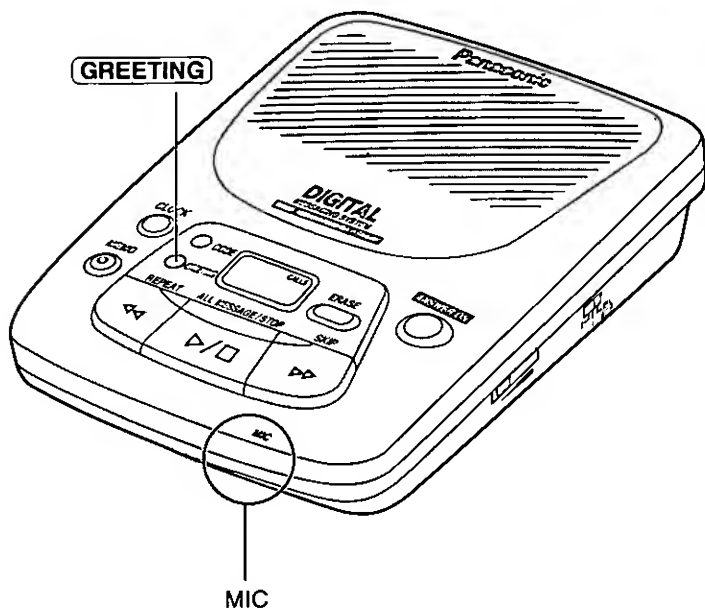
◇ Setting Up

Recording a Greeting Message

You must record a greeting message (announcement) up to 30 seconds. **If a greeting message is not recorded, the unit will not answer calls.**

All messages (greeting, incoming, memo, etc.) are stored in digital memory. Total recording time is **about 10 minutes**. (The caller's recording time is up to 1 minute.)

We recommend you record a **brief greeting message** leaving more time in memory.





- 1 Press and hold **GREETING**.
- 2 After a long beep, speak clearly 20 cm (8") away from the MIC (microphone) pressing **GREETING**.
 - The display counts down the remaining recording time.
- 3 When finished, release **GREETING**.
 - A short beep sounds and the recorded greeting message is played.
 - To change the greeting message, repeat from step 1.

To check the greeting message

Press and release **GREETING**.

- The recorded greeting is played.
- Press **GREETING** again to stop playback.
- “No announcement” is heard if a greeting message has not been recorded.

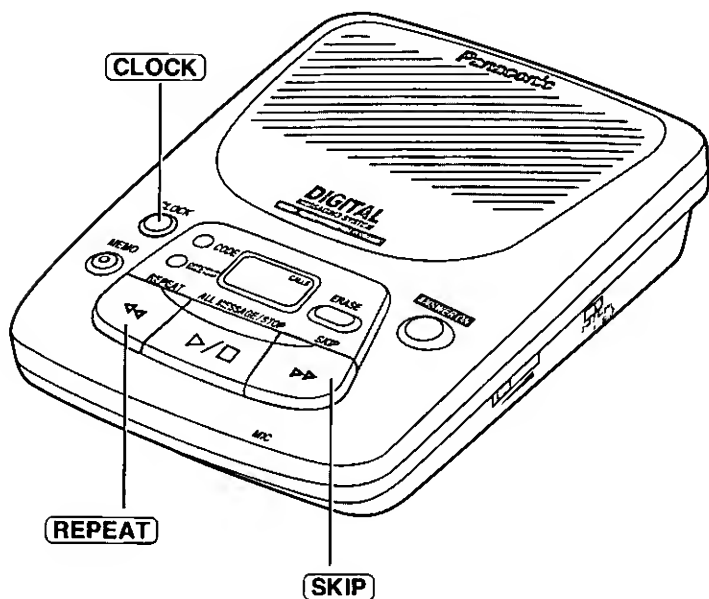
Sample of greeting message

“Hello, this is (your name and/or number). Sorry, I cannot take your call. Please leave a message after the long beep. (Your recording time is 1 minute.) Thank you.”

◇ Setting Up

Day and Time Adjustment

Voice Day/Time Stamp: During playback a synthesized voice will announce the day and time when each message was recorded.



- 1 Press and hold **CLOCK** until a long beep is heard.
 - The previously set day is heard and displayed.
 - 2 Press **SKIP** or **REPEAT** until the current day is announced and displayed.

Display
↓

⇐ 1: Sunday ⇐ 2: Monday ⇐ ⇐ 7: Saturday ⇐
 - 3 Press and release **CLOCK**.
 - A beep and “AM” or “PM” is heard and the previously set hour is displayed.
 - 4 Press **SKIP** or **REPEAT** until the current hour is displayed.
 - “AM” or “PM” is heard when changed to AM or PM.
 - 5 Press and release **CLOCK**.
 - A beep is heard and the previously set minute is displayed.
 - 6 Press **SKIP** or **REPEAT** until the current minute is displayed.
 - Pressing and holding **SKIP** or **REPEAT** will change the minute display quickly.
 - 7 Press and release **CLOCK**.
 - The current day/time is heard.
- If you did not complete each step within 8 seconds, the unit will end the programming mode automatically. Start from step 1.
 - The accuracy of the clock is approximately ± 60 seconds a month at room temperature.

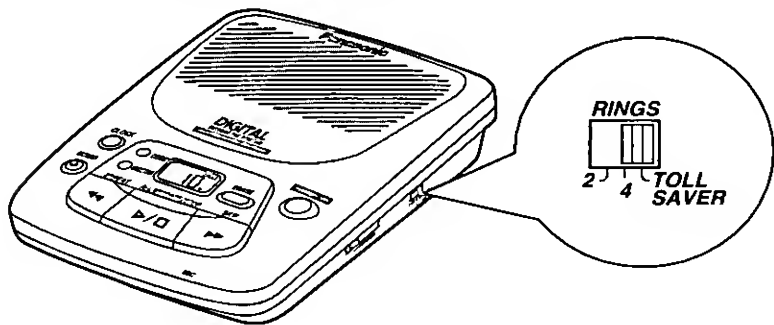
To check the day/time

Press and release **CLOCK**.

◇ Setting Up

Selecting the Number of Rings

You can select the number of rings before your answering system answers a call, "2", "4" or "TOLL SAVER (Factory preset)".



Set the **RINGER Selector** to 2, 4 or TOLL SAVER.

2: The unit answers a call after the 2nd ring.

4: The unit answers a call after the 4th ring.

TOLL SAVER: Toll Saver function is selected.

Toll Saver

When you call the unit from a touch tone telephone:

If the unit answers after the 2nd ring; There is at least one new message*.

If the unit answers after the 4th ring; There are no new messages.

Hang up immediately when you hear the 3rd ring. This saves you the toll charge for the call.

*If you have not listened to the day/time stamp at the end of the new message, the message is still treated as a new message and the unit answers the call after the 2nd ring.

Automatic Answering Operation

When a call is received, the unit plays back your greeting message and records the caller's incoming message.

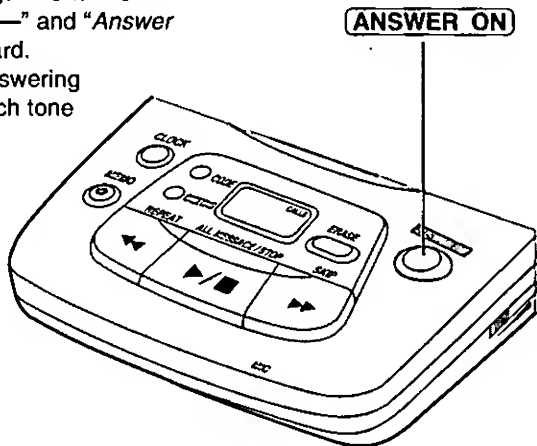
The caller's recording time is up to 1 minute. (The unit will send a short beep at 55 seconds, then 3 short beeps at the end of 1 minute to alert the caller.)

- If no greeting message has been recorded, the unit will not answer calls.
- The total recording time (including the greeting message) is **about 10 minutes**.
- A maximum of 62 messages can be recorded.
- If the remaining recording time is less than 30 seconds or the unit records 62 messages, the display will show "Fu". The unit will answer the call after 15 rings and announce "Memory is full.", then terminate after 8 seconds. Erase some or all messages (p. 16).

Setting the Unit to Answer Calls

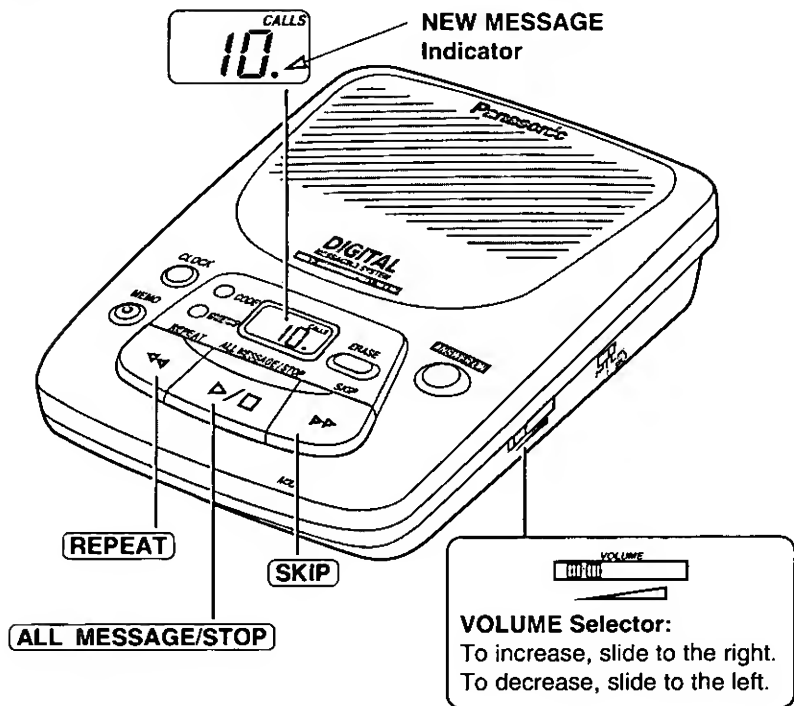
Press **ANSWER ON** to turn on the answering function.

- The display shows "0" and "Answer function is ON." is heard.
- If you do not want the unit to answer calls, press **ANSWER ON** again to turn off. The display shows "—" and "Answer function is OFF." is heard.
- You can turn on the answering function by using a touch tone phone (p. 24).



Listening to Messages

When new incoming messages have been recorded, the display shows the total number of recorded messages and the NEW MESSAGE indicator lights.



Press and release **ALL MESSAGE/STOP** to listen to all the recorded messages.

- The unit announces the number of incoming messages and plays them back.
- To listen to only the new messages you can skip the reviewed message by pressing **SKIP**.
- If there are no messages, "No message" is heard.
- At the end of the last message "End of message(s)" is heard.
- All of the recorded messages are saved until you erase them.

During playback:

To repeat the message	Press and release REPEAT to repeat the current message. Press and hold REPEAT for 2 seconds to repeat the previous message.
To skip the message	Press and release SKIP to skip to the next message.
To stop the operation	Press and release ALL MESSAGE/STOP to stop playback.

- A tone is heard after you press any of the above keys.

Monitoring incoming calls

While a call is being recorded, you can monitor it through the speaker. To answer the call, lift the handset of the telephone connected to the same line.

- You can adjust the volume by using the VOLUME selector (p. 14).
- If the answering machine does not stop working when you lift the handset, press **ALL MESSAGE/STOP**.

Erasing Messages

Erasing a specific message

You may erase a specific message in memory.

Press and release **ERASE** while the message you want to erase is being played.

- A tone is heard.
- The unit erases the message.
- The unit continues to play the next message.

Erasing all messages

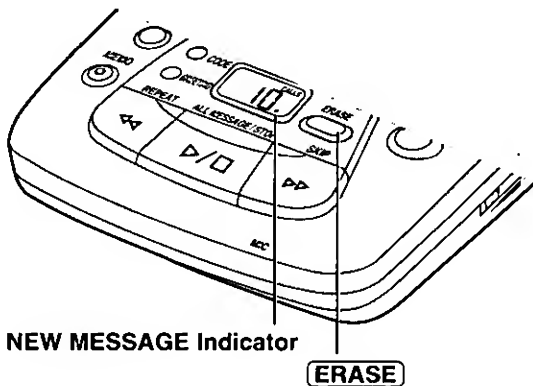
You may erase all the recorded messages in memory after listening to them. If there are any messages in memory you have not listened to, the unit announces "New messages" and you cannot erase them.

Press and hold **ERASE** until a long beep is heard while the message is not being played.

- The display shows "0".

*If you have not listened to the day/time stamp at the end of the new message (For example, you have skipped/stopped new message playback by pressing **SKIP**/**STOP**), the message remains a new message.

*If the NEW MESSAGE indicator is lit, there is a new message.



Recording a Memo Message

You may record a personal message in memory.

1 Press and release **MEMO**.

◦ A long beep is heard.

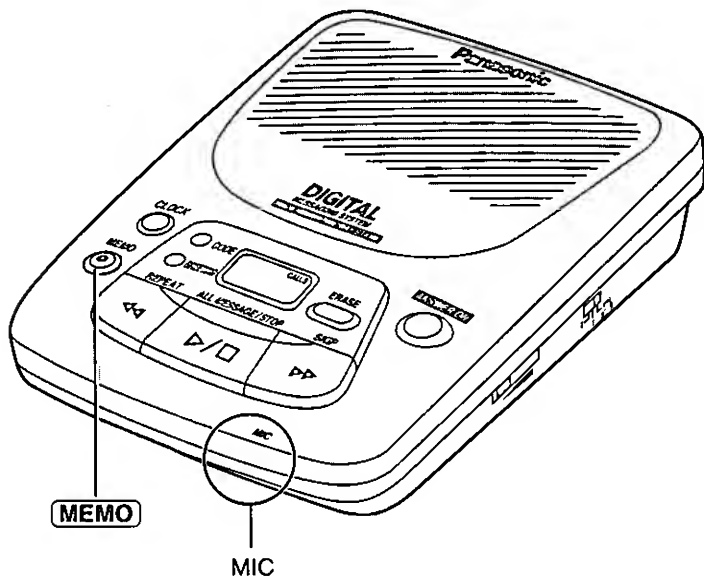
2 After the long beep, speak clearly into the **MIC** (microphone).

◦ The display counts up the recording time.

3 When finished, press **MEMO**.

◦ A beep is heard.

◦ If your memo message is less than 1 second, 3 beeps will be heard and it can not be recorded.



Remote Operation

You can operate the answering function from any touch tone phone. The synthesized voice menu will guide on you how to operate the unit (p. 20).

Summary of remote operation

1

Call your unit from a touch tone phone.
◦The greeting message is heard.



2

Enter your security code number after the greeting message playback (p. 19).
◦Press **firmly** when you press each button. After pressing the 3rd digit number, a long beep is heard and the voice menu starts.



3

Voice menu starts (p. 20).
Follow the menu or enter a direct command (p. 22).
If the voice menu does not start, enter the security code number again within 8 seconds.



4

To end the remote operation, hang up.
◦The messages are saved.

- Do not press “#” button for a few seconds. Some long distance services use “#” for other purposes and these services may take priority over the remote operation.
- For your convenience, you can use a dial card on pages 33–34.
- Even if the voice menu has started, other command buttons can be used.
- During message playback, only 7, 8, 9, 0 and * keys can be used.

Setting the Security Code Number

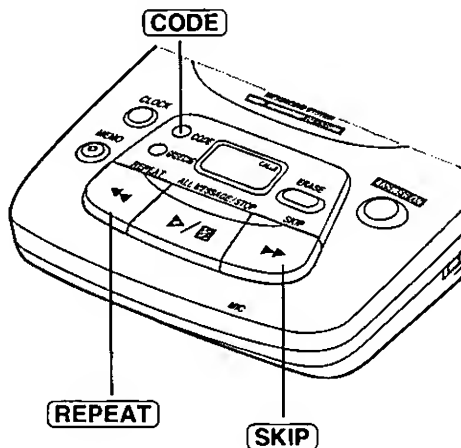
The security code prevents unauthorized persons from accessing your unit and listening to your messages. Choose any 3-digit number (111–999). Factory preset is “888”.

- 1 Press and hold **CODE** until a long beep is heard.
 - The display flashes the 1st digit number preset.
- 2 Press **SKIP** or **REPEAT** until the desired number is displayed.
- 3 Press and release **CODE**.
 - A beep is heard.
 - The display flashes the 2nd digit number preset.
- 4 Repeat steps 2 and 3 to set the 2nd digit number.
 - A beep is heard.
 - The display flashes the 3rd digit number preset.
- 5 Repeat steps 2 and 3 to set the 3rd digit number.
 - A beep is heard.

To check the security code number

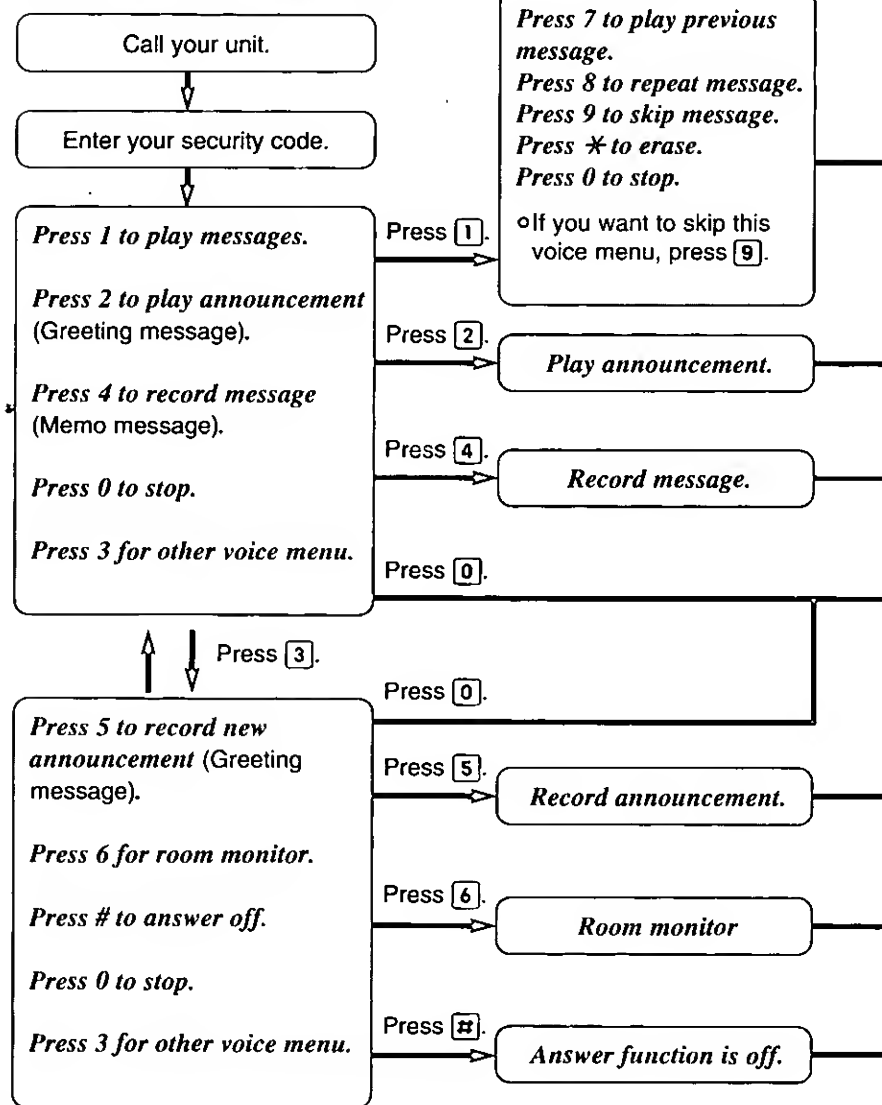
Press and release **CODE**.

- The current security code number is displayed digit by digit.



Remote Operation

Voice Menu Operation





Message playback

The unit plays back all the recorded messages. At the end of the last message, "End of messages" is heard.

Greeting Message (announcement) playback

The unit plays back the greeting message.

Recording a Memo Message

Record your personal message. When finished, press **[0]**.

Current operation stop

The unit stops the current operation. Press another function key.

Recording a Greeting Message (announcement)

Re-record your greeting message. When finished, press **[0]**.

Room Monitor

You can monitor the sound around the unit for about 15 seconds.

Turning off the answering system.

The unit is turned off and cannot record message.

◇ Remote Operation

Direct Remote Operation

Once you have entered your security code, you can also control your unit by direct remote command instead of using the voice menu. To end the remote operation, hang up.

List of the direct command

MESSAGE PLAYBACK	1	◦ All the recorded messages are played back.
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GREETING MESSAGE PLAYBACK	2	◦ The current greeting message (announcement) is played.
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NEXT VOICE MENU	3	◦ The next voice menu is played.
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MEMO MESSAGE RECORDING	4	◦ You can leave your own message (up to 1 minute) after " <i>Record Message.</i> " and a long beep is heard. When finished press 0 .
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GREETING MESSAGE RECORDING	5	◦ You can record a new greeting message (up to 30 seconds) after " <i>Record announcement.</i> " and a long beep is heard. When finished press 0 .
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ROOM MONITOR	6	◦ After " <i>Room monitor</i> " is heard you can monitor the sound around the unit for 15 seconds. To continue press 6 again.
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PREVIOUS MESSAGE PLAYBACK (During playback)	7	◦ The previous message is played back.
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REPEAT
(During
playback)

8

- The current message is repeated from the beginning.

SKIP
(During
playback)

9

- The current message is skipped and the next message is played.

STOP

0

- The current operation is stopped. Press another function key.

ERASE
(During
playback)

✖

- The current message is erased.

ANSWERING
FUNCTION
OFF

#

- The answering function is turned off.
"Answer function is off." is heard.
-

◇ Remote Operation

Turning on the answering function

- ① Call your unit and wait for 15 rings.
 - The unit answers and “*Answer function is off.*” is heard. (If no greeting message has been recorded, 3 beeps are heard. Record the greeting message*.)
- ② Enter your security code.
- ③ When you hear the voice menu, hang up or enter the direct command.

—*If no greeting message has been recorded,

- ① Call your unit and wait for 15 rings.
 - The unit answers and 3 beeps are heard.
- ② Enter your security code.
 - Voice menu starts.
- ③ Press [5].
- ④ After “*Record announcement.*” and a long beep is heard, record a *greeting message (up to 30 seconds).
- ⑤ Press [0].
- ⑥ Hang up.

When memory is full

The unit will answer after the 15th ring and announce “*Memory is full.*”. After 8 seconds the unit will automatically terminate the call.

To record new incoming messages;

- ① Call your unit and wait for 15 rings.
 - “*Memory is full.*” is heard.
- ② Enter your security code.
 - Voice menu starts.
- ③ Press [1] to play back recorded messages.
- ④ Press [*] to erase messages.
- ⑤ Hang up.

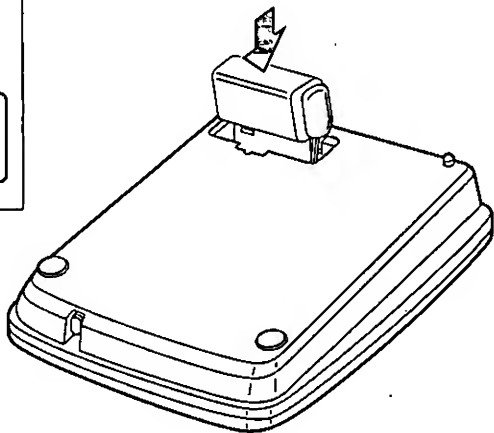
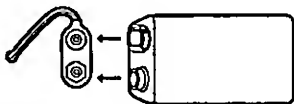
Battery Replacement

If the battery power is low, "Lo" flashes. Replace with a new one. (If "Lo" flashes after installing a new battery, it will disappear after 10 seconds. Simply disconnect the AC adaptor cord and reinsert it again without removing the battery.)

The new battery's retention time is approximately 1 day for recorded messages and the clock (p. 10) during a power failure.

Open the cover and install the battery. Then close the cover (p. 7).

Snap on the terminals of the battery to the battery clip.



Precautions:

The battery should be used correctly, otherwise the unit may be damaged due to battery leakage.

- Do not charge, short-circuit, disassemble, heat or dispose in fire.
- To avoid losing your greeting and messages saved in memory, the AC adaptor must remain connected.
- Disconnect the telephone line cord before opening the battery compartment cover.
- Replace the battery with a new one once a year to prevent operation failures.
- Do not install a Nickel-Cadmium battery in the unit.

Before Requesting Help

Problem	Remedy
The unit does not work.	<ul style="list-style-type: none">◦Check the setting up (p. 6).◦Check power source.
During message playback or monitoring a call no sounds are heard.	<ul style="list-style-type: none">◦Adjust the VOLUME selector.
You can not record a greeting message. Any sounds (announcement, beep etc.) are not heard from the unit.	<ul style="list-style-type: none">◦Connect ONLY Panasonic AC ADAPTOR KX-A17.
3 short beeps are heard when operating the unit.	<ul style="list-style-type: none">◦The unit rejected your code or operation. Try again.
The answering function is on, but no messages are recorded.	<ul style="list-style-type: none">◦Record the greeting message (p. 8).◦Memory is full. Erase some or all messages.
You can not erase all the messages and "New messages" is heard.	<ul style="list-style-type: none">◦Listen to all the messages and day/time stamps and try again.
When you lift the handset of the branch telephone after the unit answers a call, the greeting does not stop.	<ul style="list-style-type: none">◦Press ALL MESSAGE/STOP, then you can answer a call (p. 15).

Problem	Remedy
You cannot operate the answering function from a touch tone phone.	<ul style="list-style-type: none">◦ Turn the answering function on (p. 24).◦ Press your correct security code.◦ Press a button after the greeting message playback and a long beep.◦ Press each button for more than 1 second to produce a long tone.◦ In some areas, a remote touch tone phone may not function due to telephone line conditions.
I cannot turn the unit on from the touch tone phone.	<ul style="list-style-type: none">◦ If no greeting message has been recorded, you can not turn on the unit. Record the greeting message before hanging up (p. 24).
"Lo" is flashing on the display. After a power failure the greeting message is lost.	<ul style="list-style-type: none">◦ A battery is not installed in the unit or battery power is low. Install a new battery (p. 7, 25).
"Lo" is still flashing on the display even when installing a new battery.	<ul style="list-style-type: none">◦ Disconnect the AC adaptor cord and then reinsert it without removing the battery, "Lo" will disappear after 10 seconds.
While operating the unit, the AC adaptor feels warm. I cannot use the unit during a power failure.	<ul style="list-style-type: none">◦ These are normal conditions.
If you cannot solve your problem.	<ul style="list-style-type: none">◦ Call our customer satisfaction center at 201-348-9090.

FCC and Other Information

If requested by the telephone company, inform them as follows:
FCC Registration No.

(found on the bottom of the unit)
Ringer Equivalence0.1B

The particular telephone line to which the equipment is connected.

This unit must not be connected to a coin operated line.

If you are on a party line, check with your local telephone company.

Ringer Equivalence No. (REN):
The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:

- (a) Promptly notify the customer.
- (b) Give the customer an opportunity to correct the

- (c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

When programming emergency numbers and/or making test calls to emergency numbers:

1. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
2. Perform such activities in the off-peak hours, such as early morning hours or late evenings.

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

• **Environment**—do not place the unit in rooms where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.

• **Routine care**—wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you left the unit unused for long time, unplug the AC adaptor from the outlet.

• **If there is any trouble**—disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult with your telephone company.

Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bath tub, wash bowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicer when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicer when the following conditions occur:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the unit.

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- C. If the unit has been exposed to rain or water.
 - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
 - E. If the unit has been dropped or physically damaged.
 - F. If the unit exhibits a distinct change in performance.
- 13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
 - 14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery specified.
2. Do not dispose of the battery in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling battery in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Do not recharge the battery provided with or identified for use with this product. The battery may leak corrosive electrolyte or explode.
6. Do not attempt to rejuvenate the battery provided with or identified for use with this product by heating. Sudden release of battery electrolyte may occur causing burns or

irritation to the eyes or skin.

7. Remove the battery from this product if the product will not be used for a long period of time (several months or more). During this time the battery could leak in the product.
8. Discard the “dead” battery as soon as possible. A “dead” battery may leak in the product.
9. Do not store this product, or the battery provided with or identified for use with this product, in high temperature areas. Battery that are stored in a freezer or refrigerator for the purpose of extending shelf life should be protected from condensation during storage and defrosting. Battery should be stabilized at room temperature prior to use after cold storage.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

OPERATION FROM TONE PHONE

Call your unit.



Press security code no. _____



Press the direct command.
OR
Follow the voice menu.



To end the remote operation,
hang up.

- When you press a button, press firmly for more than 1 second.

To record your memo message (up to 1 minute),

- ① Press **[4]**.
- ② Speak after a long beep.
- ③ When finished, press **[0]**.

To re-record the greeting message (up to 30 seconds),

- ① Press **[5]**.
- ② Speak after a long beep.
- ③ When finished, press **[0]**.

No.	Remote Command
1	Playing Message
2	Playing Back Greeting Message
3	Playing Next Voice Menu
4	Recording Memo Message
5	Recording New Greeting Message
6	Room Monitor
7	Previous Message Playback
8	Repeat the Message
9	Skip the Message
0	Stop the Operation
*	Erasing the Message
#	Answer Off

To turn the answering function on

- ① Call your unit and wait for 15 rings.
- ② Enter your security code.
- ③ When you hear the voice menu, hang up or enter the direct command.
 - If the greeting message is not recorded, record it before hanging up.

For product service

- Panasonic Servicenters are listed in the servicer directory.
- Call 1-800-545-2672 for the location of an authorized servicer.

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom

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- Send the unit to an authorized servicer, prepaid and adequately insured.
 - Do not send your unit to the Matsushita Consumer Electronics Company listed on the next page or to executive or regional sales offices. These locations do not repair consumer products.

**Matsushita Consumer Electronics Company,
Division of Matsushita Electric Corporation of America**
One Panasonic Way, Secaucus, New Jersey 07094

**Panasonic Sales Company ("PSC"),
Division of Matsushita Electric of Puerto Rico, Inc.**
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park
Carolina, Puerto Rico 00985